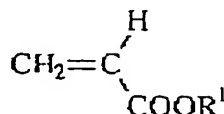


## Patent Abstracts of Japan

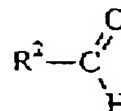
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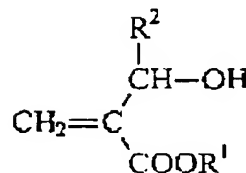
APPLICANT : NIPPON SHOKUBAI CO LTD;

INVENTOR : YAMAMOTO KANAE;



INT.CL. : C07C 67/31 B01J 31/02 C07C 69/732  
 // C07B 61/00

TITLE : PREPARATION OF  
 $\alpha$ -HYDROXYMETHYL ACRYLATE  
 COMPOUND



ABSTRACT : PROBLEM TO BE SOLVED: To obtain the subject  $\alpha$ -hydroxymethyl acrylate in high yield, effectively suppressing production of by-product by setting the amount of water of a reaction system in a specific range in a reaction of an acrylate compound and an aldehyde compound.

SOLUTION: The subject compound of formula III (e.g., methyl  $\alpha$ -hydroxymethyl acrylate) is obtained by reacting a compound of formula I (R<sup>1</sup> is an organic residue) (e.g., methyl acrylate) and a compound of formula II (R<sup>2</sup> is H or an organic residue) (e.g., acetaldehyde) in the presence of a tertiary amine catalyst (e.g., triethylamine) and water. In the reaction the mole fraction of the three components, the acrylate compound, the tertiary amine and water is (25-50/15-40/5-45) as a character, and the preferable solubility of the acrylate to water is  $\geq 0.1$  at 20°C.

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